

SLUDGE INJECTION TYPE MEMBRANE FILTER APPARATUS

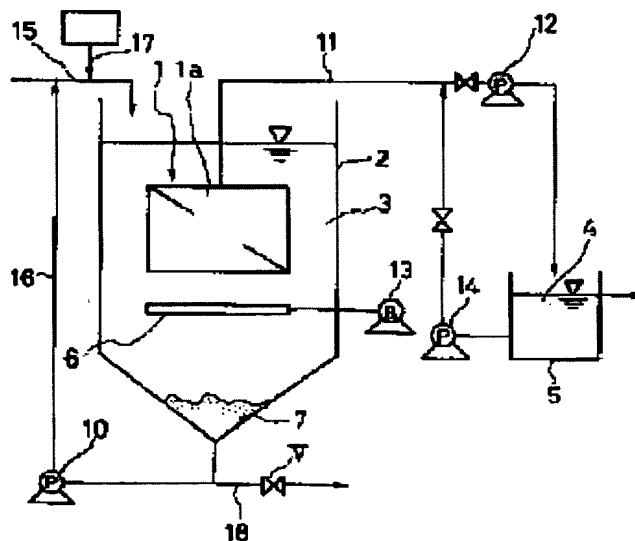
Patent number: JP8215681
Publication date: 1996-08-27
Inventor: AYA HIDENORI; ANRAKU KOICHI; INOUE TETSUJI; ARAUMI JIYUNICHI
Applicant: AYA HIDENORI; MAEZAWA KOGYO
Classification:
- International: *B01D37/02; B01D63/02; B01D65/02; B01D65/08; C02F1/44; B01D37/00; B01D63/02; B01D65/00; C02F1/44; (IPC1-7): C02F1/44; B01D37/02; B01D63/02; B01D65/02; B01D65/08*
- european:
Application number: JP19950028142 19950216
Priority number(s): JP19950028142 19950216

Report a data error here

Abstract of JP8215681

PURPOSE: To keep high transmission flux by preventing a membrane from becoming a clogged state by the penetration of fine particulate suspended matter smaller than the pores of the membrane into a membrane layer in a membrane filter apparatus.

CONSTITUTION: In a membrane filter apparatus allowing raw water 3 introduced into a filter tank 2 to transmit to perform solid-liquid separation by a membrane module 1, a sludge injection type membrane filter apparatus mixing sludge 7 adsorbing suspended matter in raw water 3 and growing the same to a size equal to or larger than the size of the pores of a filter membrane with the raw water 3 is constituted. Concretely, a sludge circulating pump 10 circulating sludge 7 to supply the same is installed to the raw water supply system to the filter tank 2 and an air jet pipe 6 whirling up the sludge 7 sedimented on the bottom part of the filter tank 2 to mix the same with the raw water 3 is laid within the sludge 7. In this case, the membrane module may be an immersion type filter membrane or a casing housing type filter membrane.



Data supplied from the esp@cenet database - Worldwide